

State of California
California Energy Commission
Minutes of the June 14, 2016, Energy Commission Business Meeting

The meeting was called to order by Chair Weisenmiller. The Pledge of Allegiance was led by Chair Weisenmiller.

Present:

Robert B. Weisenmiller, Chair
Karen Douglas, Commissioner

David Hochschild, Commissioner
Janea A. Scott, Commissioner

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. DELEGATION OF AUTHORITY TO THE EXECUTIVE DIRECTOR TO APPROVE SETTLEMENT AGREEMENTS. Proposed order delegating to the Executive Director, or his or her designee, the authority to approve Settlement Agreements for cases involving violations of the Appliance Efficiency Regulations contained in title 20, California Code of Regulations, section 1601 et seq. Contact: Paul Jacobs.
 - b. MIDWAY SUNSET COGENERATION (85-AFC-03C). Approval of an order granting the petition to transfer ownership of the remaining portion of Midway Sunset Cogeneration Company's main steam distribution line to the steam host, Aera Energy LLC. Contact: Mary Dyas.
 - c. HUNTINGTON BEACH ENERGY PROJECT (12-AFC-02C). Approval of an order granting the petition to change ownership of the Huntington Beach Energy Project (HBEP) from Huntington Beach Energy Project (AES Southland Development, LLC) to AES Huntington Beach Energy, LLC. Contact: John Heiser.

Item 1a was moved off the consent calendar and taken up as a discussion item. Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 1a. The vote was 4-0. Commissioner Douglas moved and Commissioner Scott seconded approval of Item 1b-c. The vote was 4-0.

2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (5 minutes)
 - a. LOS ANGELES DEPARTMENT OF WATER & POWER LETTER OF APPEAL RE: RPS CERTIFICATION. Possible appointment of a committee and approval of an order, pursuant to Public Resources Code section 25211, to hear and take action on (1) a Letter of Appeal from the Los Angeles Department of Water & Power (LADWP), which appeals the Executive Director's decision to deny LADWP's Petition for Reconsideration of Energy Commission staff's denial of LADWP's Application for Renewables Portfolio Standard (RPS) certification for its Scattergood, Harbor, Valley, and Haynes facilities to use biomethane procured

under contracts transacted in 2009 and (2) any subsequent RPS certification eligibility appeals, motions, or requests filed by LADWP seeking action by the full Commission. Contact: Jennifer Martin-Gallardo. (Staff presentation: 5 minutes)

Commissioner Hochschild moved and Commissioner Douglas seconded approval of Item 2a. The vote was 4-0. Chair Weisenmiller announced he will be the Presiding Member and Commissioner Hochschild will be the Associate Member.

3. BLYTHE ENERGY PROJECT (99-AFC-08C). Possible approval of an order granting approval of the Petition to Amend requesting the reduction of hourly and annual PM10 mass emission limits, the reduction of the annual natural gas fuel sulfur content limit, and the reduction of the annual oxides of sulfur (SOx) mass emission limit from the conservative emission limits required within the license to more accurately reflect potential emissions from the facility based upon operating experience and test data. Contact: Mary Dyas. (Staff presentation: 10 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 3. The vote was 4-0.

4. HIGH DESERT POWER PLANT (97-AFC-01C). Contact: Susan Cochran. (Staff presentation: 5 minutes)
 - a. Possible approval of the Revised Committee Recommended Decision Granting Interim Relief to Drought-Proof the Facility (RCRD), Errata, and related adoption order, granting interim water supply (drought) relief to the High Desert Power Plant, 97-AFC-01C, located near the City of Victorville in San Bernardino County, by authorizing a one-year extension on the use of groundwater (until September 30, 2017) and requiring other actions to improve the project's ability to store water.
 - b. Possible closed session deliberation on the above described RCRD. (Government Code section 11126(c)(3).)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 4. The vote was 4-0.

5. ASPEN ENVIRONMENTAL GROUP. Proposed resolution approving Agreement 700-15-001 with Aspen Environmental Group for a \$4,687,000 contract to provide siting, transmission and environmental protection technical support to Energy Commission staff for electricity systems planning studies, including developing and implementing land use conservation plans; preparing landscape level environmental analysis and planning study documentation; preparing system implications, power flow and economic studies; and other technical activities. (ERPA funding) Contact: Joseph Merrill. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 5. The vote was 4-0.

6. ASPEN ENVIRONMENTAL GROUP. Proposed resolution approving Amendment 1 to Agreement 800-13-001 with Aspen Environmental Group to augment the contract by \$175,000 and add additional subcontractors for transportation demand forecasting and distributed energy locational analysis. The unanticipated circumstances of the Aliso Canyon natural gas leak resulted in the unexpected need for natural gas analytical support that exceeds the original amount allocated to work authorizations for Natural Gas Assessment and Forecasting. (ERPA funding) Contact: Sylvia Bender. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 6. The vote was 4-0.

7. 2016 BUILDING ENERGY EFFICIENCY STANDARDS RESIDENTIAL AND NONRESIDENTIAL ALTERNATIVE CALCULATION METHOD (ACM) REFERENCE MANUALS. Proposed resolutions certifying the updated 2016 Residential and Nonresidential ACM Reference Manuals as required by Public Resources Code Section 25402.1(e). These ACM Reference Manuals document the modeling methods used in the 2016.2.0 Compliance Software, which will demonstrate performance compliance with the provisions of the 2016 Building Energy Efficiency Standards. Contact: Larry Froess. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 7. The vote was 4-0.

8. 2016 PUBLIC DOMAIN RESIDENTIAL COMPLIANCE SOFTWARE, CBECC-RES 2016.2.0 AND NONRESIDENTIAL COMPLIANCE SOFTWARE, CBECC-COM 2016.2.0. Proposed resolutions approving updated 2016 Public Domain Residential and Nonresidential software used to demonstrate performance compliance with the 2016 Building Energy Efficiency Standards (Public Resources Code Section 25402.1(a)). Contact: Larry Froess. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 8. The vote was 4-0.

9. CITY OF DAVIS. Proposed resolution approving the City of Davis's locally adopted building energy standards to require greater energy efficiency than the 2013 Building Energy Efficiency Standards. Contact: Ingrid Neumann. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 9. The vote was 4-0.

10. DIGITAL ENERGY, INC. Proposed resolution approving Amendment 1 to Agreement 400-14-001 with Digital Energy, Inc. to augment the contract amount by \$1,250,000 to assist and support the Bright Schools and Energy Partnership programs by providing additional technical assistance to program participants including projects eligible for Proposition 39 funding. (ECAA-Ed funding) Contact: Amir Ehyai. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 10. The vote was 4-0.

11. NORESCO, LLC. Proposed resolution approving Agreement 400-15-012 with NORESCO, LLC for a \$933,711 contract to perform technical support services for increasing energy efficiency in existing buildings, including building energy-use benchmarking; building energy science and energy modeling; measurement and verification of energy efficiency savings; energy consumption forecasts and demand analysis; the Building Energy Efficiency Standards and energy-related installation practices; and data standardization, security and accessibility. (ERPA funding) David Ismailyan. (Staff Presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 11. The vote was 4-0.

12. NATIONAL PARK SERVICE. Proposed resolution approving Agreement 600-15-013 with the National Park Service for a \$1,499,652 contract to identify viable sites in the national parks in California for the installation of electric vehicle (EV) charging stations,

and subsequently install the EV charging stations and related infrastructure at the selected sites. This project will enable further access for electric vehicles to national parks and reduce fuel use and vehicle emissions. (ARFVTP funding) Contact: Kadir Bedir. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 12. The vote was 4-0.

13. PACIFIC NORTHWEST NATIONAL LABORATORY. Proposed resolution approving Agreement 600-15-014 with the Pacific Northwest National Laboratory (PNNL) operated by the Battelle Memorial Institute for the U.S. Department of Energy in the amount of \$221,333 for PNNL's Hydrogen Safety Panel to perform hydrogen safety plan reviews and hydrogen refueling station evaluations. (ARFVTP funding) Contact: Christopher Jenks. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 13. The vote was 4-0.

14. FREIGHT TRANSPORTATION PROJECTS AT CALIFORNIA SEAPORTS, GFO-15-604. This solicitation sought proposals to demonstrate medium- and heavy-duty vehicle technologies, intelligent transportation systems demonstrations, and natural gas vehicle deployments. (ARFVTP funding) Contact: Larry Rillera. (Staff presentation: 5 minutes)
 - a. SAN DIEGO PORT TENANTS ASSOCIATION. Proposed resolution approving Agreement ARV-15-068 with the San Diego Port Tenants Association for a \$5,903,652 grant to conduct a field demonstration project of advanced vehicle technologies and intelligent transportation systems. The demonstration will occur in and around the Port of San Diego and benefit disadvantaged communities.
 - b. CITY OF LOS ANGELES HARBOR DEPARTMENT. Proposed resolution approving Agreement ARV-15-069 with the City of Los Angeles Harbor Department for a \$5,833,000 grant to conduct a demonstration of medium- and heavy-duty advanced vehicle technologies and intelligent transportation systems. The demonstration will occur in and near the Port of Los Angeles and within disadvantaged communities.

Commissioner Scott moved and Commissioner Hochschild seconded approval of Item 14a-b. The vote was 4-0.

15. UNIVERSITY OF CALIFORNIA, BERKELEY. Proposed resolution approving Agreement FED-15-001 with the Regents of the University of California, on behalf of the Berkeley campus for a \$1,684,999 grant to fund research to identify and assess vulnerabilities of California's transportation fuel sector to extreme weather-related events and identify options to promote resilience. (PVEA funding) Contact: Susan Wilhelm. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 15. The vote was 4-0.

16. UNIVERSITY OF CALIFORNIA, MERCED. Proposed resolution approving Agreement 500-15-006 with the Regents of the University of California, on behalf of the Merced campus for a \$999,806 contract to demonstrate solar thermal water heating systems that utilize mini-channel technology with lower cost aluminum in existing residential, commercial, and/or industrial buildings. The project will also develop and demonstrate solar thermal mini-channel technology using copper for greater performance than is possible with existing solar thermal non-evacuated tube technology. (PIER natural gas funding) Contact: Jeffrey Doll. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 16. The vote was 4-0.

17. REDUCING COSTS FOR COMMUNITIES AND BUSINESSES THROUGH INTEGRATED DEMAND-SIDE MANAGEMENT AND ZERO NET ENERGY DEMONSTRATIONS, GFO-15-308. This solicitation sought proposals to fund integrated technologies, strategies, and demonstrations that emphasize innovative energy efficiency packages to achieve whole building performance improvements that help overcome technical, economic, and other market barriers that prevent achievement of state policy goals. (EPIC funding) Contact: Jeffrey Doll. (Staff presentation: 10 minutes)
- a. CENTER FOR SUSTAINABLE ENERGY. Proposed resolution approving Agreement EPC-15-085 with Center for Sustainable Energy for a \$2,715,516 grant to demonstrate emerging energy efficiency technologies at three City of San Diego libraries. The libraries will also utilize match funding to install renewable energy generation and energy storage which, together with the energy efficiency technology, will bring the sites closer to being zero net energy.
 - b. ELECTRIC POWER RESEARCH INSTITUTE (EPRI).
 - i. CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS.
Proposed resolution covering three project sites:
 - (a) City of Lake Forest: Findings that, based on the lead agency, City of Lake Forest's, Final Initial Study, Mitigated Negative Declaration and Mitigation, Monitoring, and Reporting Program and resolution adopting the Mitigated Negative Declaration and approving the Monitoring, and Reporting Program, the work under the proposed project presents no new significant or substantially more severe environmental impacts beyond those already considered.
 - (b) City of Clovis: (1) Findings that, based on the lead agency, City of Clovis's, resolution certifying the Final Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program, and making findings under CEQA including the adoption of a Statement of Overriding Considerations, the work under the proposed project presents no new significant or substantially more severe environmental impacts beyond those already considered; and (2) Adopting a Statement of Overriding Considerations.
 - (c) City of Woodland: (1) Findings that, based on the lead agency, City of Woodland's, resolutions certifying the Final Environmental Impact Report, and subsequent amendments thereto, adopting a Mitigation Monitoring Plan, and making findings under CEQA, including the issuance of a Statement of Overriding Considerations, the work under the proposed project presents no new significant or substantially more severe environmental impacts beyond those already considered; and (2) Adopting a Statement of Overriding Considerations.
 - ii. Proposed resolution approving Agreement EPC-15-094 with Electric Power Research Institute for a \$4,942,809 grant to demonstrate cost-competitive ZNE design strategies combining occupant needs with technology solutions to create new pathways at three residential communities. The demonstrations will be in the California cities of Lake Forest, Clovis and Woodland.

- c. BUILD IT GREEN. Proposed resolution approving Agreement EPC-15-097 with Build It Green for a \$1,955,811 grant to research and assess pre-commercial space-heating, space-cooling, domestic hot water, and other technologies to validate building energy performance and consumer and building industry acceptance in low income, multifamily buildings to determine the potential for achieving zero net energy. These buildings are located in Oakland, Atascadero, Calistoga and Cloverdale.

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 17a-c. The vote was 4-0.

- 18. ADM ASSOCIATES, INC. Proposed resolution approving Agreement 300-15-013 with ADM Associates, Inc. for a \$1,147,406 contract to conduct analysis to characterize existing and future electricity load shapes in the service territories of Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company. This information will help overcome technical barriers to achieving California's clean energy goals by providing an accurate assessment of the contributions of clean energy technologies in reducing peak demand, integrating renewable energy into the grid, and maintaining electricity system reliability as the development of clean energy technologies and strategies increases over time. (EPIC funding) Contact: Andrea Gough. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 18. The vote was 4-0.

- 19. DEVELOPING THE SMART GRID OF 2020: CLEAN, SAFE, AND HIGHLY INTELLIGENT, GFO-15-313. This solicitation sought proposals to develop technologies, tools and strategies to enable the smart grid of 2020. (EPIC funding) Contact: Consuelo Sichon (Staff presentation: 5 minutes)
 - a. UNIVERSITY OF CALIFORNIA, IRVINE. Proposed resolution approving Agreement EPC-15-086 with the Regents of the University of California, on behalf of the Irvine campus for a \$932,718 grant to design enhanced substation controls to manage distributed energy assets as a single unit. A controller for utility substations will be developed that optimizes the dispatch and use of distributed energy resources and investigates the ability of these resources to participate in electricity markets.
 - b. ELECTRIC POWER RESEARCH INSTITUTE, INC. Proposed resolution approving Agreement EPC-15-089 with Electric Power Research Institute, Inc. for a \$873,516 grant to fund the development and expansion of communication standards to support large-scale energy storage systems and maximize benefits to ratepayers.
 - c. UNIVERSITY OF CALIFORNIA, RIVERSIDE. Proposed resolution approving Agreement EPC-15-090 with the Regents of the University of California, on behalf of the Riverside campus for a \$1,119,437 grant to develop an Integrated Distributed Energy Resources Management System (iDERMS) to accommodate increasing renewable resources on the distribution network while improving distribution system reliability, flexibility and resiliency.

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 19a-c. The vote was 4-0.

- 20. ADVANCING WATER AND ENERGY EFFICIENT STRATEGIES AND TECHNOLOGIES IN CALIFORNIA, GFO-15-317. This solicitation sought proposals to: 1) Conduct research to identify, test, evaluate and demonstrate innovative

technologies and strategies that will result in both water and energy savings and will overcome barriers to large scale deployment; 2) Develop innovative and replicable approaches for accelerating the deployment of drought resilient strategies that minimize the need for new water related energy infrastructure. (EPIC funding) Contact: Kevin Mori. (Staff presentation: 10 minutes)

- a. ELECTRIC POWER RESEARCH INSTITUTE, INC. Proposed resolution approving Agreement EPC-15-087 with Electric Power Research Institute, Inc. for a \$1,999,995 grant to demonstrate a water treatment system for chilled water plants which eliminates the use of toxic biocides and anti-scaling agents, and could reduce water use and increase energy efficiency of chilled water equipment. The demonstration sites are in Southern California.
- b. KENNEDY/JENKS CONSULTANTS, INC. Proposed resolution approving Agreement EPC-15-088 with Kennedy/Jenks Consultants, Inc. for a \$1,306,185 grant to demonstrate biofiltration as an advanced primary treatment method to reduce total organic load at wastewater treatment plants, to achieve substantial energy and water savings. The demonstration site is in Northern California.
- c. ELECTRIC POWER RESEARCH INSTITUTE, INC. Proposed resolution approving Agreement EPC-15-091 with Electric Power Research Institute, Inc. for a \$1,097,990 grant to address over-irrigation of grapevines with a technology designed to precisely detect in real-time when a vineyard has to be irrigated in order to maintain or increase the quality or yield of the grapes and achieve energy and water savings. The demonstration sites are in Northern California.
- d. TOMORROW WATER, DBA BKT UNITED
 - i. CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS. Proposed resolution finding that based on the lead agency City of Barstow's environmental documents (2012 Environmental Checklist, Initial Study, Mitigated Negative Declaration, and Mitigation Monitoring Program, and 2013 Amended Mitigated Negative Declaration and Resolution approving and adopting it), the work under the proposed project presents no new significant or substantially more severe environmental impacts beyond those already considered.
 - ii. Proposed resolution approving Agreement EPC-15-092 with Tomorrow Water dba BKT United for a \$1,722,072 grant to fund a full-scale demonstration project of an energy-saving biofiltration system for treatment of groundwater contaminated with nitrate and perchlorate and to confirm the energy and water savings achievable using this technology. The demonstration site is in the City of Barstow.
- e. AMERICAN WATER WORKS COMPANY, INC. Proposed resolution approving Agreement EPC-15-096 with American Water Works Company, Inc. for a \$1,517,780 grant to fund the demonstration of three leak detection technologies at the municipal level to reduce the amount of water lost from leaky piping. The three technologies are: correlating continuous acoustic monitoring, satellite imagery leak detection, and flow sensitive pressure reducing valve. These technologies will be used to identify municipal leaks faster to reduce the amount of water loss, and reduce the amount of wasted embedded energy. The demonstrations will occur in Southern California.
- f. WATER ENERGY INNOVATIONS, INC. Proposed resolution approving Agreement EPC-15-093 with Water Energy Innovations, Inc. for a \$1,000,000 grant to develop a replicable model for streamlining the planning, permitting and

financing of technologies that save both energy and water. The recipient will pilot the model for Tulare County in an effort to develop a roadmap for implementation in other similar rural agricultural communities.

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 20a-f. The vote was 4-0.

21. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. Proposed resolution approving Agreement 500-15-004 with the National Aeronautics and Space Administration for a \$600,000 contract to fund a systematic methane emission survey of a fraction of California's natural gas infrastructure and to identify large methane fugitive emissions sources. (PIER natural gas funding) Contact: Yu Hou. (Staff presentation: 5 minutes)

Commissioner Hochschild moved and Commissioner Douglas seconded approval of Item 21. The vote was 4-0.

22. ICF INCORPORATED, LLC. Proposed resolution approving Agreement PIR-15-017 with ICF Incorporated, LLC for a \$599,683 grant to conduct sampling measurements on methane emissions from commercial buildings in California. The project will characterize fugitive methane emissions from specific appliances and system components from downstream of the customer meter in commercial buildings in California. (PIER natural gas funding) Contact: Yu Hou. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 22. The vote was 4-0.

23. UNIVERSITY OF CALIFORNIA, IRVINE. Proposed resolution approving Agreement 500-15-005 with the Regents of the University of California, on behalf of the Irvine campus for a \$893,692 contract to investigate climate vulnerability of the natural gas energy infrastructure in Southern California considering concurrent, compounding and dependent climate extremes. This project will support research to prepare for and mitigate the negative effects of climatic change, climate variability and extreme weather events, on natural gas infrastructure. (PIER natural gas funding) Contact: Timothy Smith. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 23. The vote was 4-0.

24. UNIVERSITY OF CALIFORNIA, SANTA CRUZ. Proposed resolution approving Agreement 500-15-007 with the Regents of the University of California, on behalf of the Santa Cruz campus for a \$600,000 contract to investigate climate vulnerability of the natural gas energy infrastructure in Northern California considering concurrent, compounding and dependent climate extremes. This project will support research to prepare for and mitigate the negative effects of climatic change and variability, as well as extreme weather events on natural gas infrastructure. (PIER natural gas funding) Contact: Timothy Smith. (Staff presentation: 5 minutes)

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 24. The vote was 4-0.

25. 2016 INDUSTRIAL NATURAL GAS ENERGY EFFICIENCY GRANTS, GFO-15-505. This solicitation sought proposals to demonstrate pre-commercial or emerging energy efficiency technologies that can directly reduce natural gas use in California's industrial sector. (PIER natural gas funding) Contact: Rajesh Kapoor. (Staff presentation: 5 minutes)

- a. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-15-011 with Institute of Gas Technology dba Gas Technology Institute for a \$500,000 grant to conduct a pilot-scale demonstration of a low-cost, low-temperature waste heat recovery system at an industrial chemical processing site to validate natural gas savings and system performance.
- b. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-15-013 with Institute of Gas Technology dba Gas Technology Institute for a \$1,294,032 grant to demonstrate water recovery from hot, humid exhaust gas from an industrial-scale drying operation.

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 25a-b. The vote was 4-0.

26. **NATURAL GAS PIPELINE SAFETY AND INTEGRITY MANAGEMENT RESEARCH GRANTS, GFO-15-506.** This solicitation sought proposals which focus on developing and demonstrating natural gas pipeline safety and integrity management technologies that improve situational information and communication, enhance integrity management practices through risk analysis, and assess the status of natural gas pipeline safety and integrity management technologies. (PIER natural gas funding) Contact: Avtar Bining. (Staff presentation: 5 minutes)

- a. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-15-012 with Institute of Gas Technology dba Gas Technology Institute for a \$1,006,812 grant to conduct a thorough assessment of the current status of transmission and distribution natural gas pipeline safety and integrity management technologies.
- b. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-15-014 with Institute of Gas Technology dba Gas Technology Institute for a \$1,481,426 grant to create and display maps and information of natural gas pipelines in California.
- c. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-15-015 with Institute of Gas Technology dba Gas Technology Institute for a \$1,301,288 grant to demonstrate the Global Positioning System-based excavation encroachment notification system technology to increase situational awareness of operating excavators and significantly reduce the risk of third party damage on utility natural gas pipeline infrastructure.
- d. DET NORSKE VERITAS (U.S.A), INC. Proposed resolution approving Agreement PIR-15-016 with Det Norske Veritas (U.S.A), Inc. for a \$1,309,305 grant to demonstrate an advanced risk assessment methodology for managing the integrity of pipelines in California.

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 26a-d. The vote was 4-0.

27. **Minutes:** Possible approval of the May 17, 2016 Business Meeting Minutes.

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 27. The vote was 4-0.

28. **Lead Commissioner or Presiding Member Reports.** The Commissioners reporter on their recent activities.
29. **Chief Counsel's Report:** None.
30. **Executive Director's Report.** The Executive Director gave a report.

31. **Public Adviser's Report.** The Public Adviser gave a report.
32. **Public Comment:** None.

Appearances:

(*by telephone)

*Mary Hazel, NPS

*Kerry Cartright, Port of Los Angeles

*Kurt Mitchell, City of Barstow

Pjoy Chua, Los Angeles Department of Water and Power

Felix Lebron, Los Angeles Department of Water and Power

Meg Waltner, Natural Resources Defense Council

Tyson Eckerle, Office of Governor Edmund G. Brown Jr.

Sophie Silvestri, San Diego Port Tenants Association

Linda Brown, San Diego Gas & Electric

Josiah Young, Weideman Group on behalf of BYD

Leonhard Fahreddin, Efficient Drivetrains Inc.

Carter Atkins, Port of Los Angeles

Ram Narayanamurthy, Electric Power Research Institute

Jorn Herner, California Air Resources Board

Nehemiah Stone, Stone Energy Associates

Shawn Garvey, The Grant Farm

Kristen Castanos, Stoel Rives, LLP

Gregory Mahoney, City of Davis

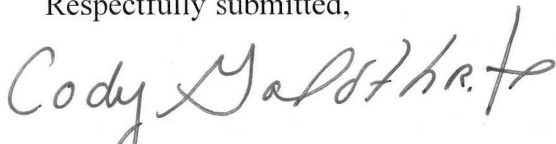
Nancee Murray, State of California Department of Fish and Wildlife

Jeffery Harris, Ellison Schneider Harris, LLP

Robert Morris, Gas Technology Institute

There being no further business, the meeting was adjourned.

Respectfully submitted,



CODY GOLDTHRITE
Secretariat

